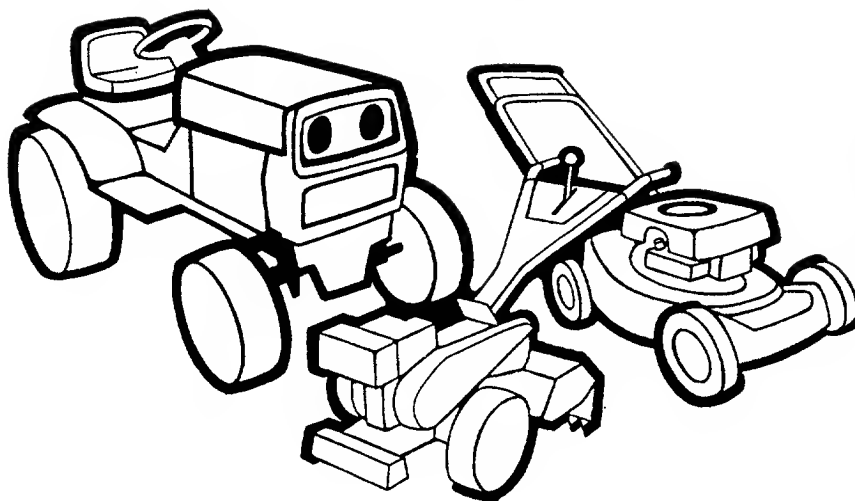


OWNERS MANUAL



**22" ELECTRIC
START REAR
DISCHARGE
ROTARY
MOWER**

**ASSEMBLY
OPERATION
MAINTENANCE
PARTS LIST**

**Model Number
124-376-000**

**Important:
Read Safety Rules and
Instructions Carefully**

Thank you for purchasing an
American built product.

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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Mow only in daylight or in good artificial light.
9. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
11. Never operate mower without proper guards, plates or other safety protective devices in place.
12. **DO NOT OPERATE** this mower with the chute doors open, unless the complete grass catcher is properly mounted on the mower.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

NOTE

Reference to left or right side of machine is determined from operator's position at the handle facing forward.

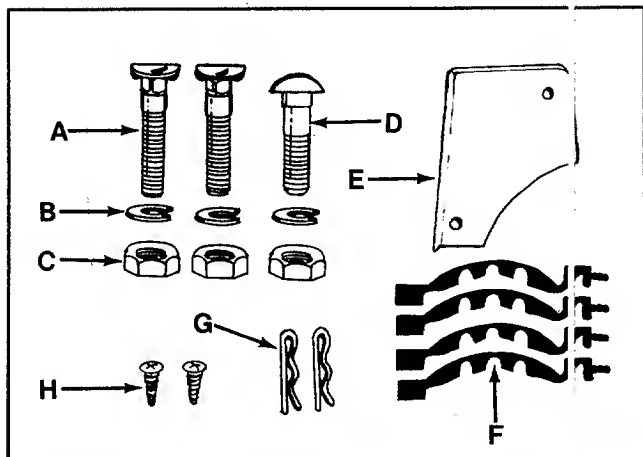


FIGURE 1.

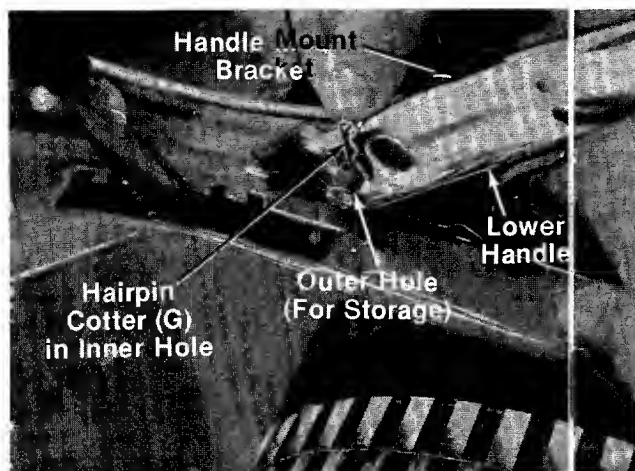


FIGURE 2.

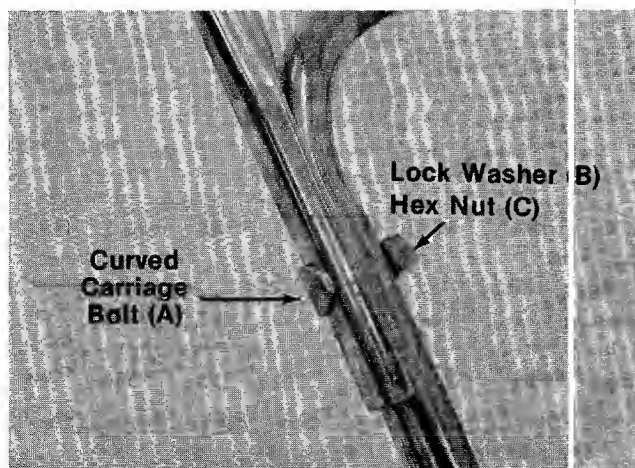


FIGURE 3.

ASSEMBLY

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

Contents of Hardware Pack: (See Figure 1)

- A (2) Curved Head Carriage Bolts 1.38" Long
- B (3) Lock Washers 5/16" I.D.
- C (3) Hex Nuts 5/16-18 Thread
- D (1) Carriage Bolt 1.25" Long
- E (1) Plastic Cap
- F (4) Cable Ties
- G (2) Hairpin Cotters
- H (2) Phillips Head Screws
- I (2) Ignition Keys (Not Shown)
- J (2) Front Hub Caps (Not Shown)

Loose Parts in Carton:

- L (1) Battery Charger
- M (1) Upper Handle
- N (1) Lower Handle

1. Remove the lawn mower, loose parts, hardware pack and literature from the carton. Make certain all parts and literature have been removed before the carton is discarded.
2. Extend all control cables and place on the floor. Be careful not to bend or kink control cables.
3. A plastic strap secures the height adjustment handle, located on the left side of the deck, to the handle mount bracket for shipping purposes. Cut and remove the plastic strap.

4. Place bottom hole in lower handle in position over weld pins in handle mount brackets on deck. Make certain the instruction label on the lower handle can be read from the operating position. Secure by placing two hairpin cotters (G) in inner hole on weld pins. The inner hole is for operation. The outer hole is for storage. See figure 2.

NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a snug fit against the bracket.

5. Place upper handle in position over lower handle. Control housing should be on the left side of the handle. Secure upper handle with two curved head carriage bolts (A), lock washers (B) and hex nuts (C). See figure 3.

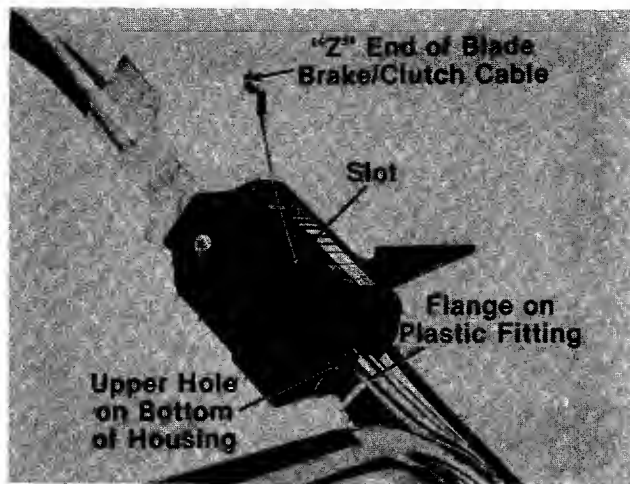


FIGURE 4.

6. The blade control cable is the cable which has a "Z" fitting on the loose end, and is attached to the engine.

Route the control cables under the lower handle. Place the end of the blade control cable into the upper hole on the bottom of the control housing, and through the slot as shown in figure 4. The angle of the flange on the plastic fitting must be positioned downward as shown. Be careful not to bend or kink the cable.

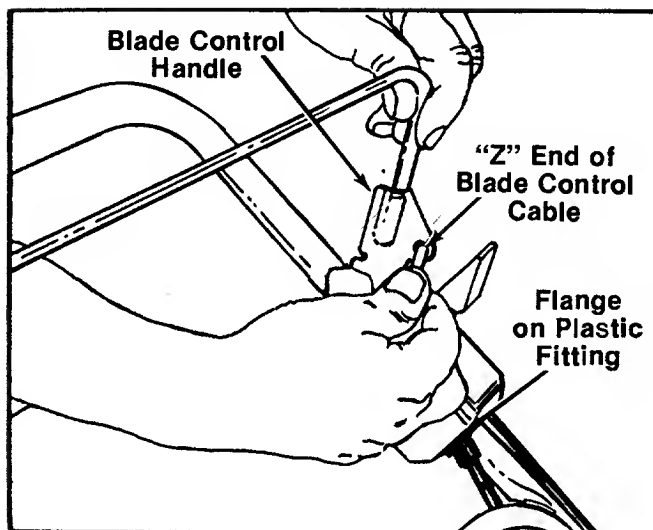


FIGURE 5.

7. Snap the plastic fitting on the end of the cable into the control housing.

8. Hook the "Z" end of the blade control cable into the hole in the blade control handle. See figure 5. If additional slack is needed in order to hook the cable into the handle proceed as follows:

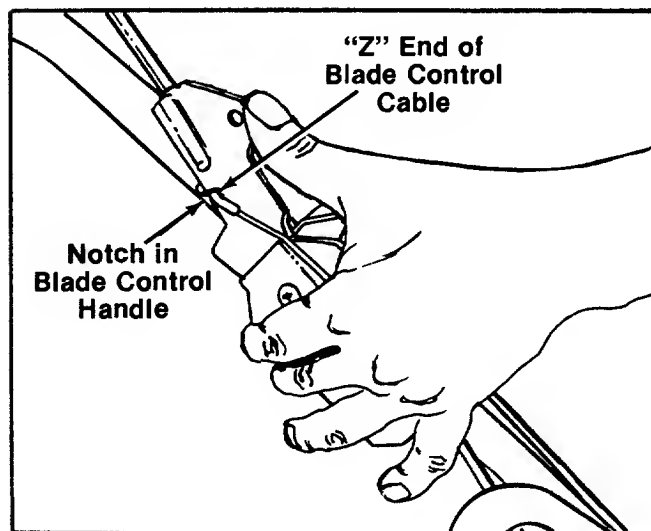


FIGURE 6.

- a. Hook the "Z" end of the cable into notch provided in the blade control handle. See figure 6.

- b. Squeeze blade control handle against upper handle.

- c. Release the blade control handle, unhook the cable from the notch and hook it into the hole in the blade control handle.

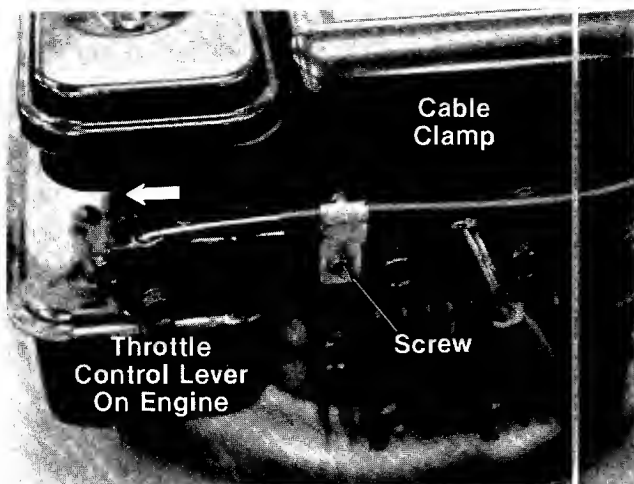


FIGURE 7.

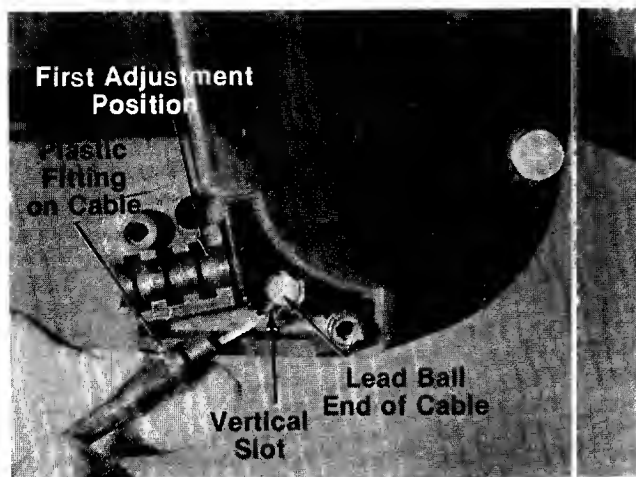


FIGURE 8.

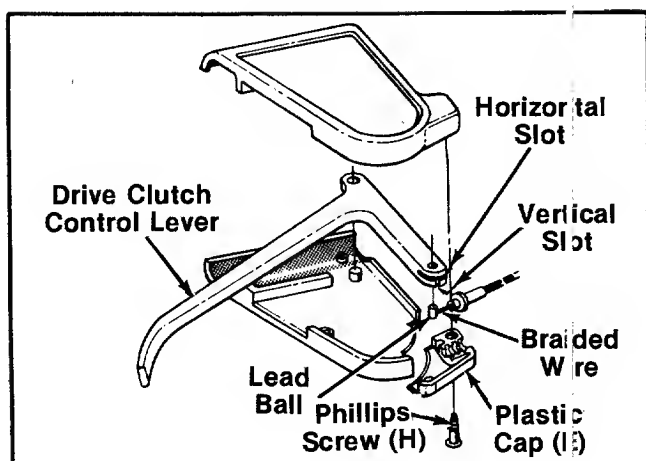


FIGURE 9.

9. If unit is so equipped, remove the dipstick, unsnap the shroud, then replace the dipstick.
10. Place the throttle control lever on the handle in "Fast" position.
11. Push the throttle control lever on the engine to the full open position (as far toward the outside of the unit as it will go) as shown in figure 7.
12. The throttle control cable is attached to the upper handle. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
13. Remove the screw on the cable clamp shown in figure 7. Slip the control casing under the clamp. With the throttle lever on the engine still in the full open position, replace and tighten the screw to secure the throttle control cable.
14. Loosen the screw on the clamp on the side of the engine. Secure the cable **away from the muffler**. Be careful not to bend or kink the cable. Tighten the screw.
15. The drive clutch control cable is attached to the deck. Attach the cable to the lever in the clutch control housing, located in the middle of the upper handle, as follows.
 - a. Place the lead ball end of the cable into the fitting provided in the end of the clutch control lever. Slip the braided wire into the vertical slot as shown in figure 8.
 - b. Slide the braided wire around in the horizontal slot. See figure 9.
 - c. Place the plastic fitting on the control cable into the first adjustment position in the clutch control housing. See figure 8.

- d. Secure the plastic cap (E) to the clutch control housing using the two phillips head screws (H). See figure 9.



WARNING

Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.

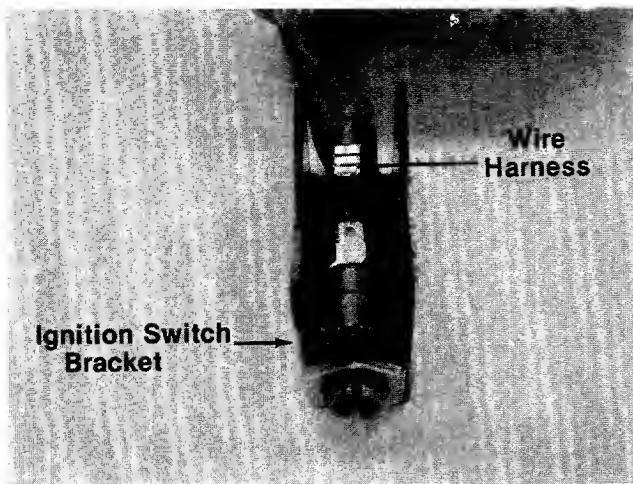


FIGURE 10.

16. Make certain the two ends on the wire harness (already attached to the engine) are plugged into the terminals on the ignition switch bracket. See figure 10.

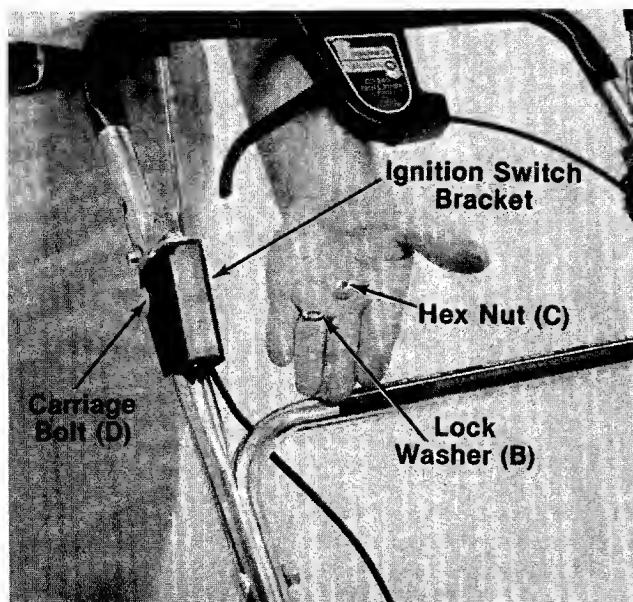


FIGURE 11.

17. Place ignition switch bracket in position on right side of upper handle as shown in figure 11. Secure with carriage bolt (D), lock washer (B) and hex nut (C).

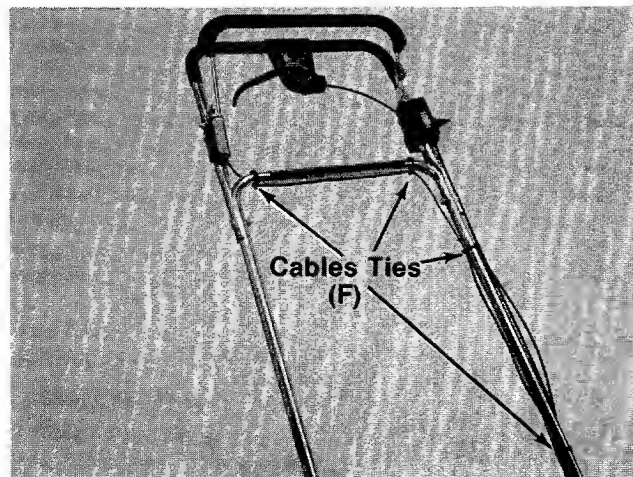


FIGURE 12.

18. Secure all control cables to upper and lower handles with cable ties (F). See figure 12.

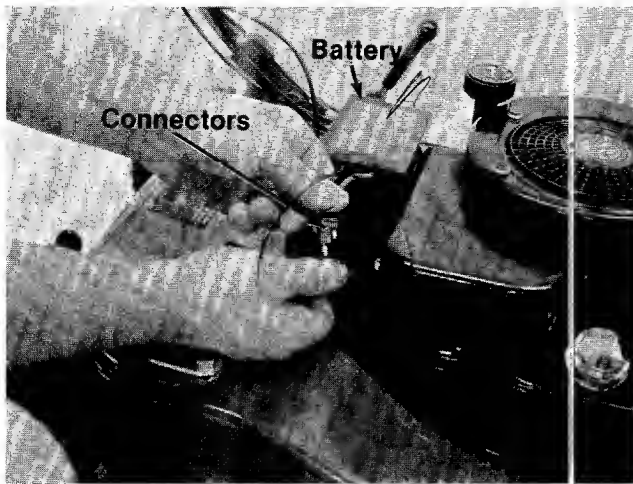


FIGURE 13.

19. The battery is shipped in a partially charged state and must be charged at least 48 hours prior to initial use. Follow charging instructions on page 11.
20. Plug the connector on the battery into the connector on the wire harness on the mower. See figure 13.
21. If unit is so equipped, remove the dipstick, snap on the shroud and replace the dipstick.

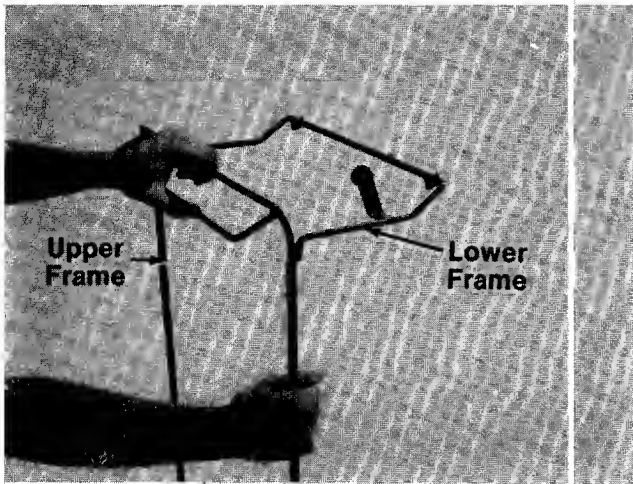


FIGURE 14.

Grass Catcher Assembly

1. Join the upper frame and lower frame assembly as shown in figure 14.

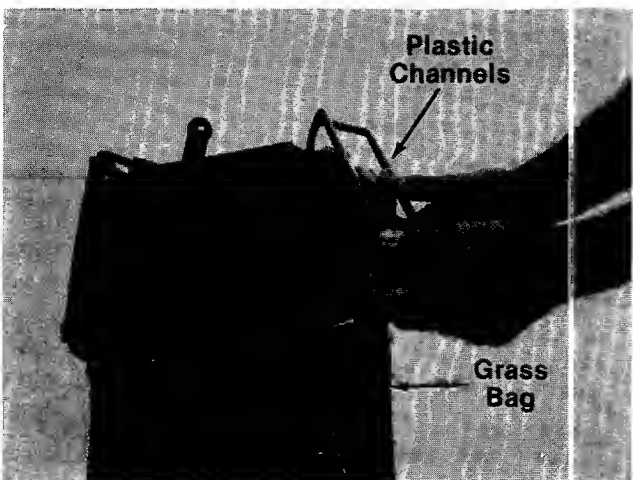


FIGURE 15.

2. Place bag over frame (black plastic side is the bottom of bag). Upper frame goes to the top of bag.
3. Secure bag to frame by slipping plastic channels on bag over frame. See figure 15.

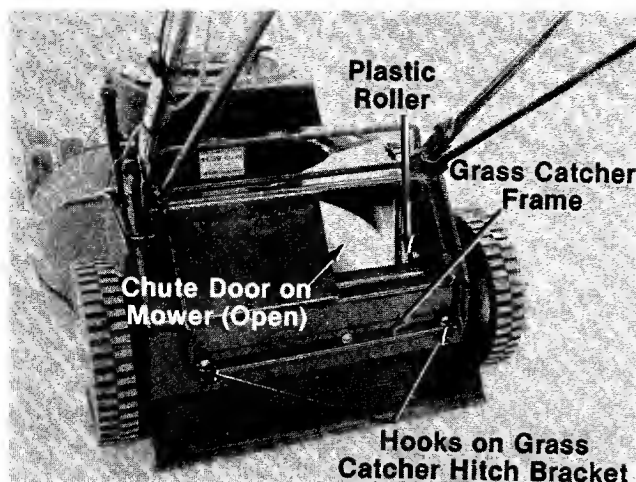


FIGURE 16.

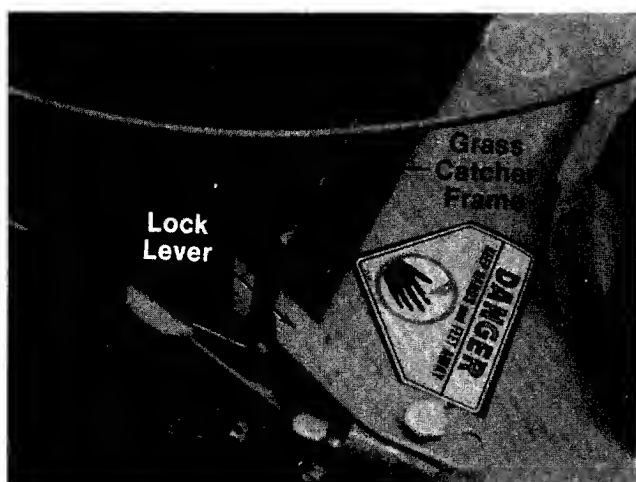


FIGURE 17.

To Attach Bag To Mower



WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

1. Attach the grass catcher frame to grass catcher hitch bracket on rear of the mower by hooking grass catcher into hooks on grass catcher hitch bracket. See figure 16.



2. Lift the rear of grass catcher up. The roller on the grass catcher will push the chute door on the mower open. See figure 16.



NOTE

Figure 16 is shown with the chute door open for photo clarity only.



The grass catcher frame will snap into place, secured by the lock lever. See figure 17.

To remove the grass catcher, unhook the lock lever and slip the grass catcher off the unit. See figure 17.

CONTROLS

THROTTLE CONTROL

The throttle is located on the left side of handle. It controls engine speed. See figure 18.



WARNING

The throttle control cannot be used to stop the engine.

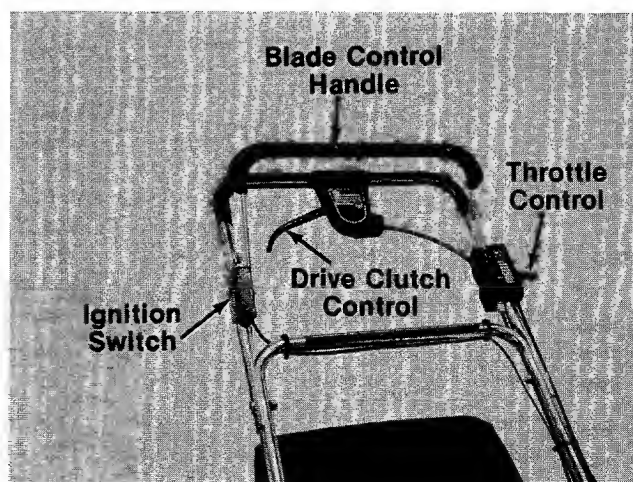


FIGURE 18.

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 18.

BLADE CONTROL HANDLE

WARNING
THIS CONTROL MECHANISM IS A SAFETY DEVICE. NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade control handle is located on the upper handle of the mower. See figure 18. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



The blade will be rotating whenever the engine is running.

IGNITION SWITCH

The ignition switch is located on the right side of handle. It is used for **starting only**. See figure 18.

HEIGHT ADJUSTMENT HANDLE

The height adjustment handle is located on the left side of the deck. The handle may be placed in one of five cutting height positions. Push the handle to the left and then either forward or backward to raise or lower the cutting height. See figure 19.

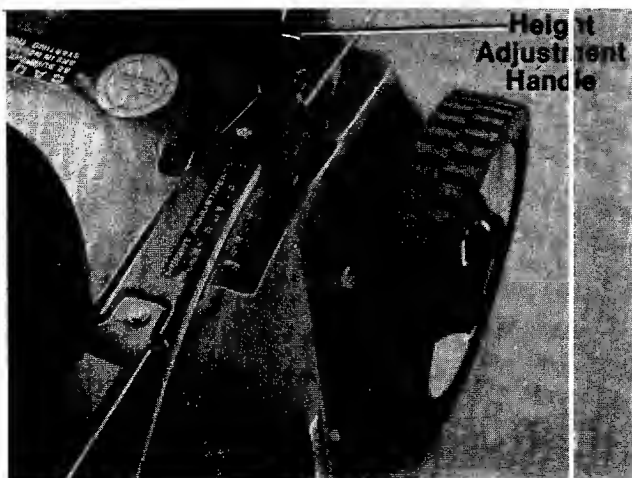


FIGURE 19.

OPERATION

DO NOT OPERATE THIS MOWER WITH THE CHUTE DOOR OPEN, UNLESS THE COMPLETE GRASSCATCHER IS PROPERLY MOUNTED ON THE MOWER.



FIGURE 20.

Keep hands and feet away from the chute area on cutting deck. See figure 20.



For shipping purposes your mower is set with the wheels in the highest cutting height position. For best results, adjust the cutting position until it is determined which height is best for your lawn. See control section.

BEFORE STARTING



The battery contains corrosive fluid and toxic material. **HANDLE WITH CARE.** Keep away from children. Do not puncture, disassemble, mutilate or incinerate. Explosive gases could be vented during charging or discharging. Use in a well-ventilated area, away from sources of ignition.

FIRST AID—If battery liquid comes in contact with skin or clothing, follow these instructions. External Contact: Immediately flush skin or eyes with water for at least 15 minutes. Internal: Drink tap water, milk or milk of magnesia. Take egg whites. In case of internal or external contact, call a physician immediately.

1. Charge battery for 48 hours before initial use. Thereafter, charge battery for a minimum of 24 hours and a maximum of 72 hours whenever necessary. For best results, charge the battery within the temperature limits of 40°F to 105°F.



CAUTION

This is a **6 volt** electrical system. Use only the battery charger supplied with this unit.

To charge the battery, proceed as follows. See figure 21.

Always plug charger lead into battery before inserting battery charger plug into 120 volt standard household outlet.

After charging, disconnect battery charger plug from household outlet first, then disconnect charger lead from battery.

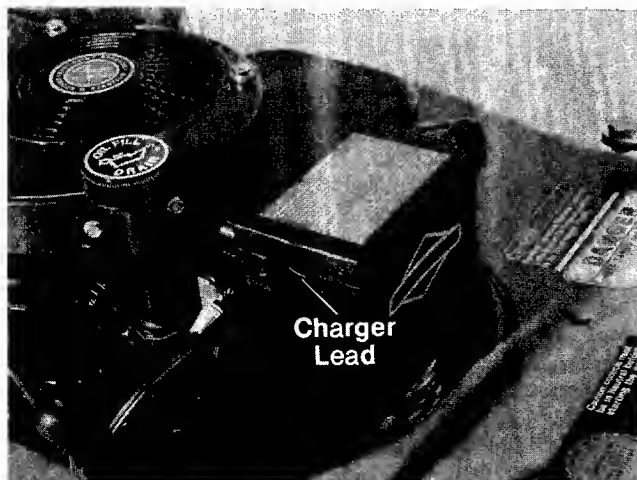


FIGURE 21.

2. Fill sump with oil as instructed in the separate engine manual packed with your unit.
3. Fill fuel tank, using clean, fresh, lead-free, low-lead or regular grade leaded gasoline. Fill tank completely!
DO NOT MIX OIL WITH GASOLINE.
4. Attach spark plug wire to spark plug.

5. Before each use, check for proper drive clutch operation by performing the following before starting the engine:

With the drive clutch control released, push mower forward. It should move freely. Pull mower backward. It should move freely.

With the drive clutch control engaged (lever squeezed against upper handle), push mower forward. It should move freely. Pull mower backward. The rear wheels should lock up. If they do not, adjust the clutch control as specified under Drive Clutch Control Adjustment on page 12.

TO START ENGINE AND ENGAGE BLADE



WARNING

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 8.

1. Move the throttle control lever to FAST or START position.
2. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 22.
3. Turn the ignition key to the right to start the engine. Release the key after engine starts.
4. After engine starts, move throttle control to desired engine speed.

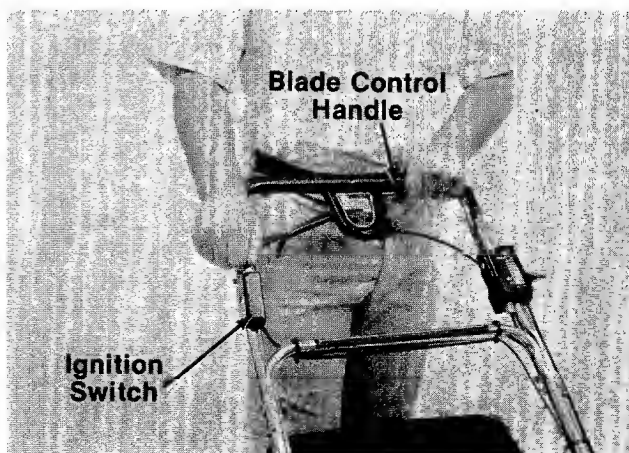


FIGURE 22.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.



WARNING

The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER



WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others. Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.



IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

DRIVE CLUTCH CONTROL ADJUSTMENT

If the unit does not self-propel with the drive clutch control engaged, remove the plastic cap from beneath the drive clutch control housing. Move the plastic fitting on the control cable to the next adjustment position on the left. Reassemble the plastic cap and retest. See figure 23.

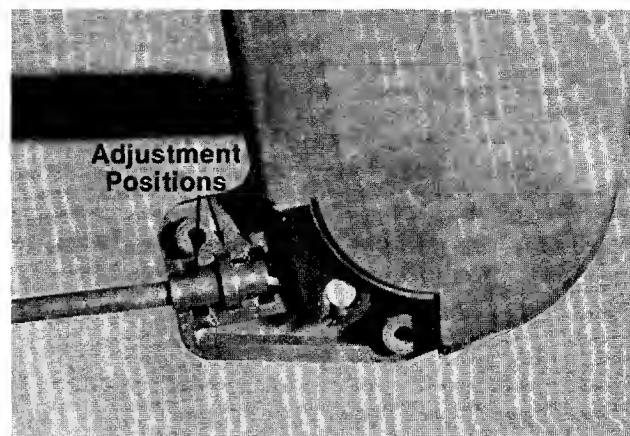


FIGURE 23.

THROTTLE

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, the screw securing throttle control wire assembly at engine. See figure 7.
2. Move throttle control lever on handle to "FAST" position.
3. Move control lever on engine to full open position. Retighten screw to secure throttle control wire assembly.

CARBURETOR ADJUSTMENTS



WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

To adjust carburetor, refer to the separate engine manual packed with your mower.

LUBRICATION



IMPORTANT

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the cable at least once a season with light oil. The blade control must operate freely in both directions.

Discharge Chute Door Mechanism—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Door must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Chain—Periodically lubricate the chain with appropriate chain lubricant. A stiff or rusted chain can be restored by removing the master link, soaking the chain in kerosene or a solvent, letting it air dry and wiping the chain with a rag saturated with lubricant.

If the rotary mower is operated in a sandy area, the chain should not be lubricated with oil. Excessive oil on a chain will collect dirt and cause excessive wear on the chain and sprockets.

MAINTENANCE



CAUTION

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

CUTTING BLADE

A. Removal for Sharpening or Replacement



Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, all nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



CAUTION

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation. ADD oil as necessary to keep level to full mark on dipstick. Before removing dipstick, clean area around dipstick to prevent dirt from entering oil fill tube. Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru oil drain on bottom of the engine. Oil capacity 1-1/4 pints.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

STORAGE OF THE BATTERY

The battery must be stored with a full charge. A discharged battery will freeze.



CAUTION

All batteries discharge during storage.

Recharge battery every two months and before returning to service. Refer to charging instructions on page 11.

BELT REMOVAL

1. Disconnect the wire from the spark plug and ground it.
2. Drain the fuel tank or place a piece of plastic film beneath the cap to prevent gasoline leakage.
3. Remove the two screws which hold the belt guard to the deck. See figure 24.

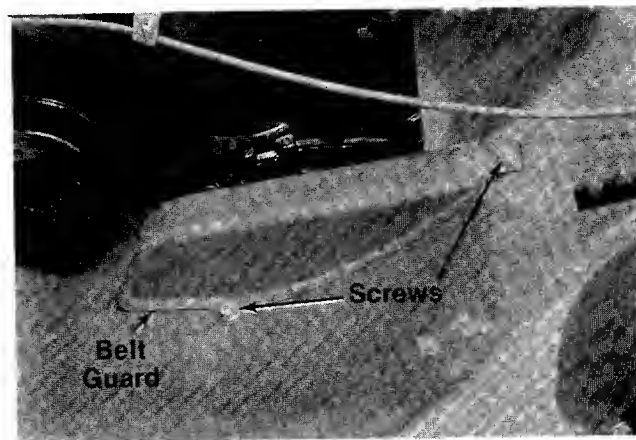


FIGURE 24.

4. Place the mower on its side.



WARNING

Make sure that the mower is secure and cannot tip over.

5. Remove three self-tapping screws, and one carriage bolt, lock washer and hex nut from cover plate. See figure 25. Remove the cover plate.

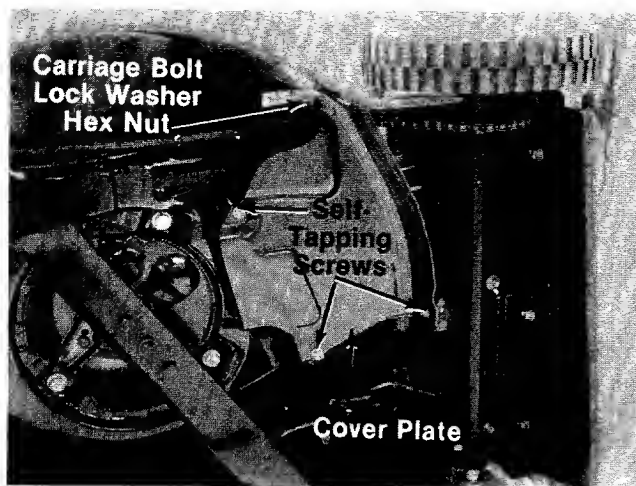


FIGURE 25.

6. Remove the belt from the idler pulley.

7. Remove the two self-tapping screws which hold the support bracket and idler bracket to the deck. See figure 26. A 7/16" wrench is required.

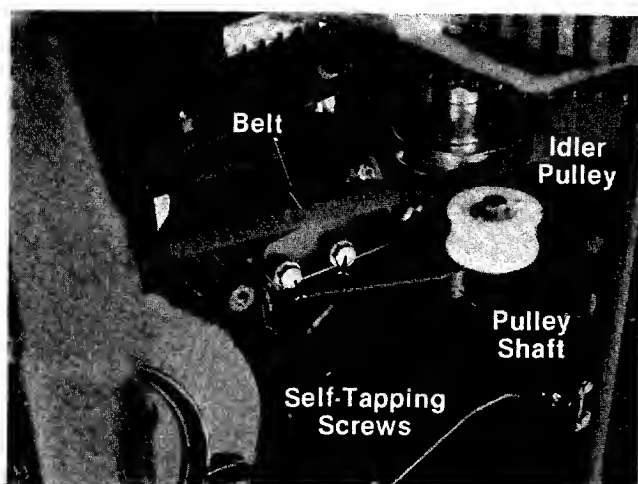


FIGURE 26.

8. Slide the support bracket and idler bracket (with idler pulley attached) off pulley shaft. See figures 26 and 27.

9. Remove belt as shown in figure 27. Reassemble in reverse order with new belt.

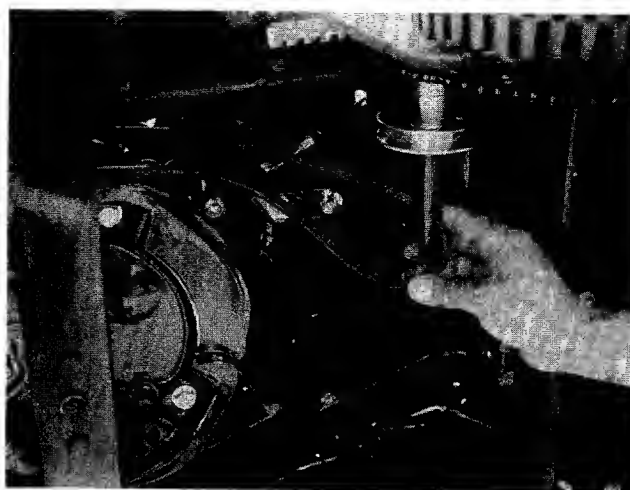


FIGURE 27.



When reassembling support bracket and idler bracket, be certain springs are hooked as shown in figure 28.

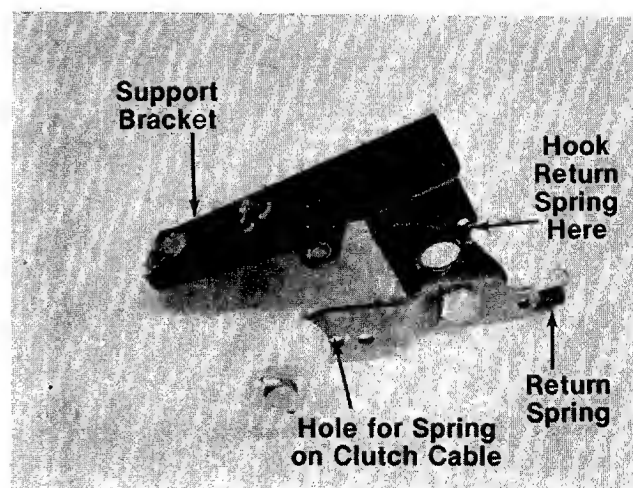


FIGURE 28.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.
5. Refer to battery storage instructions on page 14.

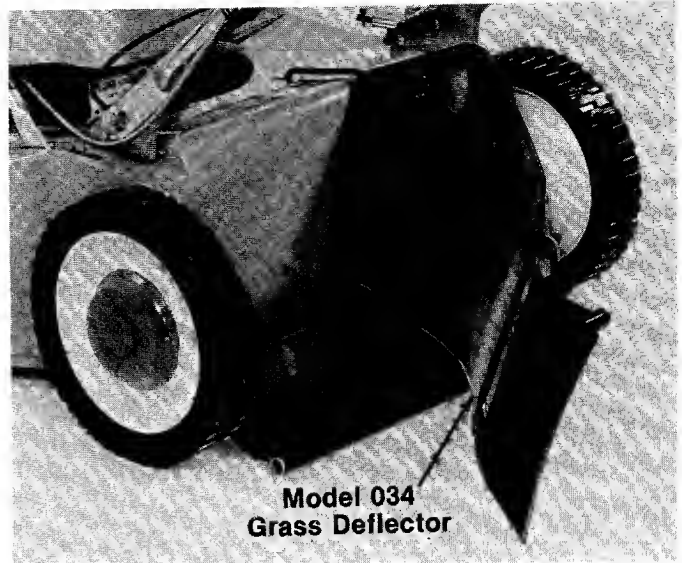


CAUTION

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rust proof the equipment. Using a light oil or silicone, coat the equipment, especially springs, bearings and cables.

HANDLE STORAGE

The handle can be stored in an upright position to take less space. Move hairpin cotter to outer hole on weld pins (see figure 3). Grasp the lower handle at the bottom and push outward slightly. Tip the handle forward. It will lock in this position. Reverse this procedure to place the handle in the operating position.



Model 034
Grass Deflector

Grass deflector Model 194-034-000 is available as optional equipment.



NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 028 is available as replacement equipment for the mower shown in this manual.



WARNING

1. DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.



NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

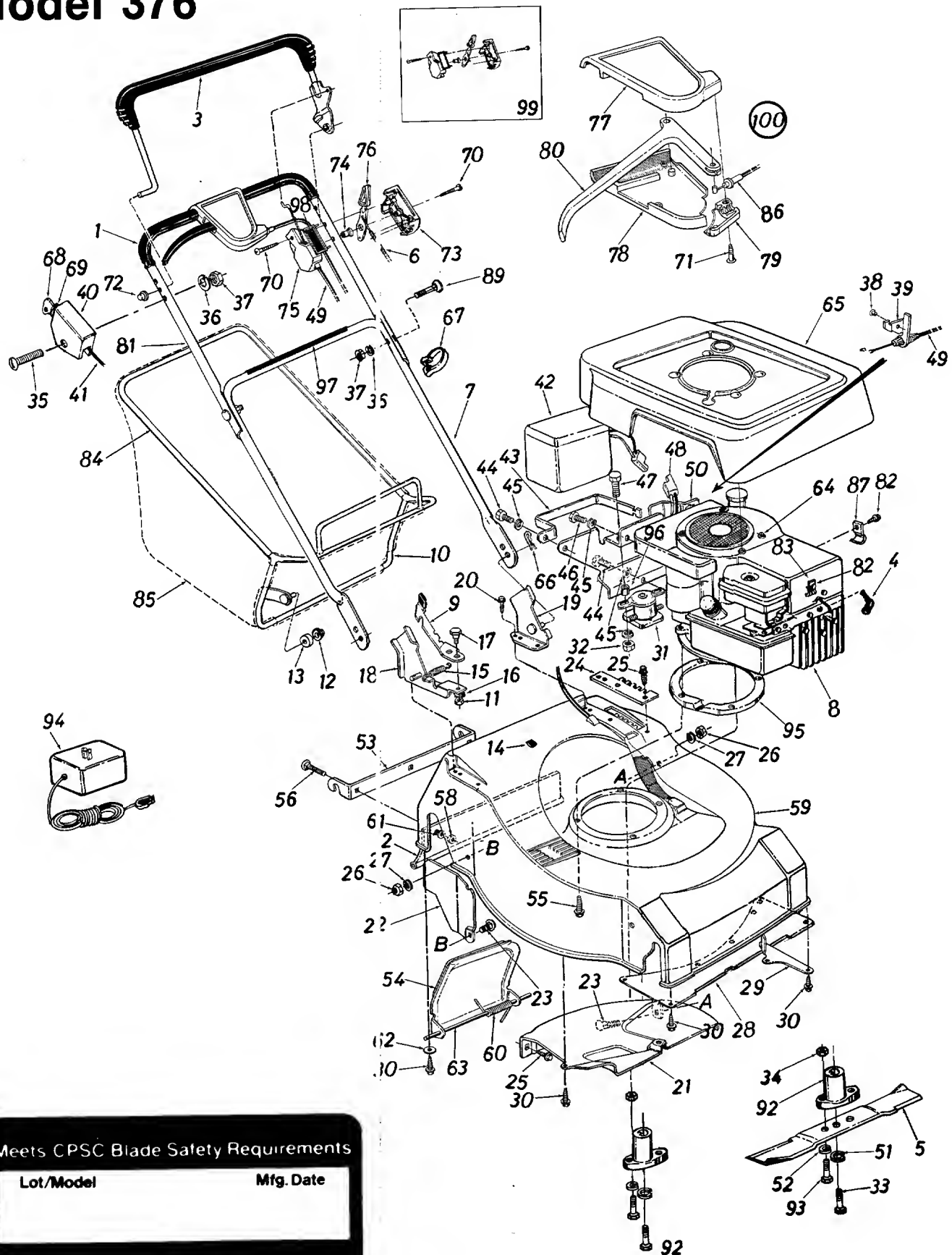
For replacement bags, use only factory authorized replacement bag No. 764-0171.

Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	A Blade control handle disengaged B Check fuel tank for gas C Spark plug lead wire disconnected. D Throttle control lever not in the starting position E Faulty spark plug F Carburetor improperly adjusted, engine flooded G Old stale gasoline H Engine brake engaged I Discharged battery	A Engage blade control handle. B Fill tank if empty. C Connect lead wire. D Move throttle lever to start position. E Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug. F Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures. G Drain and refill with fresh gasoline. H Follow starting procedure. I Refer to battery charging instructions.
2 Hard starting or loss of power	A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner	A Connect and tighten spark plug wire. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
3 Operation erratic	A Dirt in gas tank B Dirty air cleaner C Water in fuel supply D Vent in gas cap plugged E Carburetor improperly adjusted	A Remove the dirt and fill tank with fresh gas. B Clean air cleaner as described in separate engine manual. C Drain contaminated fuel and fill tank with fresh gas. D Clear vent or replace gas cap. E Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture adjustment improperly set	A Adjust carburetor. See separate engine manual. B Adjust to .030". C Adjust carburetor. See separate engine manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner	A Reset gap to .030" or replace spark plug. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
6 Engine overheats	A Carburetor not adjusted properly B Air flow restricted C Engine oil level low	A Adjust carburetor. See separate engine manual. B Remove blower housing and clean as described in separate engine manual. C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced B Bent cutting blade	A Tighten blade and adapter. Balance blade. B Replace blade.

Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

Model 376



Meets CPSC Blade Safety Requirements

Lot/Model

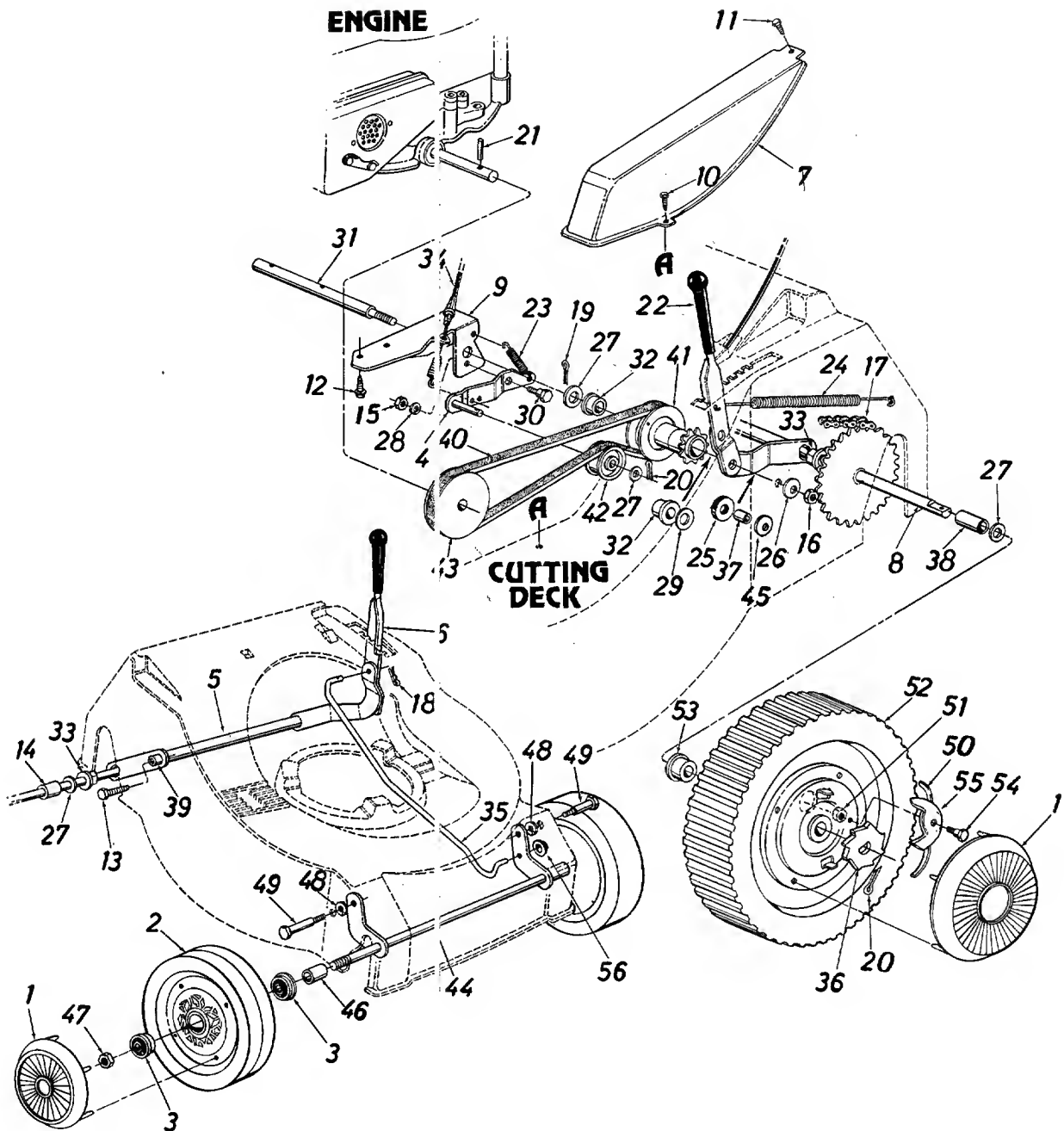
Mfg. Date

Model 376 PARTS LIST FOR MODEL 376 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	718-0145		Grip		51	736-0217		L-Wash. 3/8" I.D. Heavy Duty	
2	731-0585		Rear Flap Ass'y.		52	736-0119		L-Wash. 5/16" I.D.*	
3	731-0609		Control Handle—L.H.		53	14012		Grass Catcher Hitch Brkt.	
4	735-0639		Spark Plug Insulator		54	15245		Chute Door	
5	742-0125		22" Blade		55	710-0654		Hex Wash. Hd. TT-Tap Scr.	
6	746-0472		Throttle Wire—58.0"					3/8-16 x 1.00" Lg.	
7	749-0505		Lower Handle (Chrome)		56	710-0703		Carriage Bolt 1/4-20 x .75"*	
	749-0504		Lower Handle (Painted)		58	712-0271		Sems Nut 1/4-20 Thd.	
8	—		Engine		59	719-0253		22" Deck Ass'y.	
9	14845		Grass Catcher Lock Lever		60	732-0408		Torsion Spring .34" I.D. x	
10	14582		Grass Catcher Lower Frame					2.38" Lg.	
			Ass'y.		61	736-0173		FI-Wash. .281" I.D. x .73" O.D.	
11	712-0267		Hex Nut 5/16-18 Thd.*		62	736-0211		FI-Wash. .285" I.D. x 1.25"	
12	726-0100		Push Nut 3/8" Rod					O.D. x .060	
13	731-0430		Plastic Roller		63	747-0353		Rod .25" Dia. x 8.25" Lg.	
14	731-0564		Plug		64	726-0219		Snap On-Scr. #8 x .38" Lg.	
15	732-0357		Extension Spring					Tap AB	
16	736-0119		L-Wash. 5/16" I.D.*		65	731-0684		Shroud Ass'y.	N
17	738-0155		Shld. Bolt .437" Dia. x .162"		66	714-0104		Intern. Cot. Pin 5/16" Dia.	
18	14593		Handle Brkt. Ass'y.—R.H.		67	726-0192		Cable Tie	
19	14597		Handle Brkt. Ass'y.—L.H.		68	725-0201		Ignition Key	
20	710-0588		Hex Hd. Self-Tap Scr. 1/4-20 x		69	725-0873		Ignition Switch w/Nut	
			1.00" Lg.		70	710-0796		Truss Mach. B-Tap Scr. #12	
21	15248		Rear Baffle—L.H.					x 1.50" Lg.	
22	15254		Side Baffle		71	710-0841		Flat C-Sunk AB-Tap Scr. #10	
23	710-0167		Carriage Bolt 1/4-20 x .50" Lg.					x .75" Lg.	
24	15879		Reinforcement Brkt.		72	726-0135		Cap Speed Nut 5/16" Rod	
25	710-0782		Hex Wash. Hd. Drill Scr.		73	731-0523		Control Panel Half	
			1/4 x .75" Lg.		74	731-0524		Control Disc Pin	
26	712-0287		Hex Nut 1/4-20 Thd.*		75	731-0526		Clutch Panel Half	
27	736-0329		L-Wash. 1/4" I.D.*		76	731-0528		Throttle Control Lever	
28	15568		Front Cover Plate		77	731-0617		Control Cover Half—Upper	
29	15253		Left Strap		78	731-0618		Control Cover Half—Lower	
30	710-0776		Hex Wash. Hd. AB-Tap Scr.		79	731-0619		Cable Mtg. Cap	
			1/4 x .62" Lg.		80	731-0620		Control Lever	
31	725-0874		Solenoid 6V		81	749-0437		Upper Handle (Chrome)	
32	712-0287		Hex Nut 1/4-20 Thd.*			749-0439		Upper Handle (Painted)	
33	710-0331		Hex Bolt 3/8-24 x 2.25" Lg.		82	710-0227		Hex AB-Tap Scr. #8 x .38	
			(Grade 5)		83	751-0369		Casing Clamp	N
34	712-0123		Hex Nut 5/16-24 Thd.*		84	749-0278		Grass Catcher Upper Frame	
35	710-0161		Carr. Bolt 5/16-18 x 1.25" Lg.		85	764-0171		Grass Bag	
36	736-0119		L-Wash. 5/16" I.D.*		86	746-0463		Drive Clutch Cable—50"	
37	712-0267		Hex Nut 5/16-18 Thd.*		87	12894		Casing Clamp	
38	728-0171		Pop Rivet .156" Dia. x .379		89	710-0671		Curved Carriage Bolt 5/16-18	
39	14924		Cable Bracket					x 1.38" Lg.	
40	15392		Ignition Switch Bracket		92	753-0348		Blade Adapter Kit	
41	725-0872		Wire Harness		93	710-0888		Hex Bolt 5/16-24 x 1.00" Lg.	
42	† 715-0839		Battery—6V					(Grade 5)	
43	14852		Battery Strap		94	725-0839		Battery Charger—6V x 120V	
44	710-0642		Hex TT-Tap Scr. 1/4-20 x .75"		95	13773		Engine Mounting Cover Plate	
45	736-0329		L-Wash. 1/4" I.D.*		96	750-0287		Spacer	
46	710-0776		Hex Wash. Hd. AB-Tap Scr.		97	777-3454		Instruction Label—Handle	
			1/4 x .62" Lg.		98	777-3458		Control Label—Throttle	
47	710-0597		Hex Bolt 1/4-20 x 1.0" Lg.*		99	753-0360		Kit—Control Housing Comp.	
48	†		Wire Harness		100	753-0362		Kit—Clutch Control	
49	746-0477		Control Cable—43.0" Lg.					Housing Comp.	
50	14851		Battery Brkt.		—	8376-000-4		Hardware Pack	

†Order From Briggs and Stratton Corp.

Model 376



NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

Find It Fast
In The
Yellow Pages



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

Model 376 PARTS LIST FOR MODEL 376 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	**		Hub Cap		29	736-0344		Fl-Wash. .390" I.D. x 1.00" O.D.	
2	734-0874		Wheel Ass'y. Comp. 8 x 1.75—Front		30	738-0255		Shld. Bolt .375" Dia. x .181	
3	741-0180		Flanged Ball Brg. .500" I.D.		31	738-0501		Pulley Shaft .500" Dia.	
4	13415		Idler Brk't. Ass'y.		32	741-0248		Flange Brg. .506" I.D. Plastic	
5	15244		Axle Ass'y.		33	741-0324		Hex Flange Brg. x .506" I.D. Plastic	
6	15246		Height Adj. Handle		34	746-0463		Drive Clutch Cable—50" Lg.	
7	15247		Belt Cover		35	747-0351		Linkage Rod .38" Dia.	
8	15249		Rear Shaft Ass'y.		36	748-0187		Ratchet Wheel	
9	15250		Bracket—Pulley Shaft		37	750-0503		Spacer .395" I.D. x .503" O.D. x .562" Lg.	
10	710-0352		Hex B-Tap Scr. 1/4 x .38" Lg.		38	750-0506		Spacer .75" I.D. x .88" O.D. x 1.41" Lg.	
11	710-0456		Hex Drilling Scr. #10 x .50"		39	750-0526		Spacer .385" I.D. x .503" O.D. x .270" Lg.	
12	710-0603		Hex Wash. Hd. B-Tap Scr. 5/16-18 x .50" Lg.		40	754-0252		"V"-Belt 1/2" x 33" Lg.	
13	710-0654		Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.00" Lg.		41	756-0191		Pulley w/9 Tooth Sprocket Ass'y.	
14	711-0500		Spacer .526" I.D. x .690" O.D. x .640" Lg.		42	756-0360		Flat Idler Plastic 1.62" Dia.	
15	712-0287		Hex Nut 1/4-20 Thd.*		43	756-0384		"V"-Pulley .50" I.D. x 2.52" O.D.	
16	712-0342		Hex Jam Nut 3/8-16 Thd.		44	10662		Front Axle Ass'y.	
17	713-0289		#48 Chain 1/2" Pitch x 34 Links—E.		45	736-0219		Belleville Washer .40" I.D. x 1.13" O.D.	
18	714-0104		Intern. Cot. Pin 5/16" Dia.		46	711-0313		Sleeve .526" I.D. x .690" O.D. x .880 Lg.	
19	714-0111		Cotter Pin 3/32" Dia. x 1.00" Lg.*		47	712-0200		Hex Ins. L-Nut 1/2-20 Thd.	
20	714-0115		Cot. Pin 1/8" Dia. x 1.00" Lg.*		48	736-0221		Int. L-Wash. 3/8" I.D.	
21	715-0144		Spring Pin Spir. 3/16" Dia. x 1.50" Lg.		49	738-0149		Shld. Bolt .625 Dia. x .425	
22	720-0143		Grip—Black		50	10622		Spring—Nylon	
23	732-0357		Extension Spring .33" O.D. x 1.12" Lg.		51	712-0324		Hex Ins. L-Nut 1/4-20 Thd.	
24	732-0428		Extension Spring .50" O.D. x 4.25" Lg.		52	734-1051		Wheel Ass'y. Comp. 9.25 x 1.75 Rear	
25	735-0144		Rubber Wash.		53	741-0180		Flanged Ball Brg. .500" I.D.	
26	736-0105		Bell-Wash. .400" I.D. x .88" O.D.		54	738-0137		Shoulder Bolt .342" Dia. x .268	
27	736-0160		Fl-Wash. .531" I.D. x .930" O.D.		55	748-0188		Pawl	
28	736-0329		L-Wash. 1/4" I.D.*		56	726-0135		Cap Speed Nut 5/16" Rod	

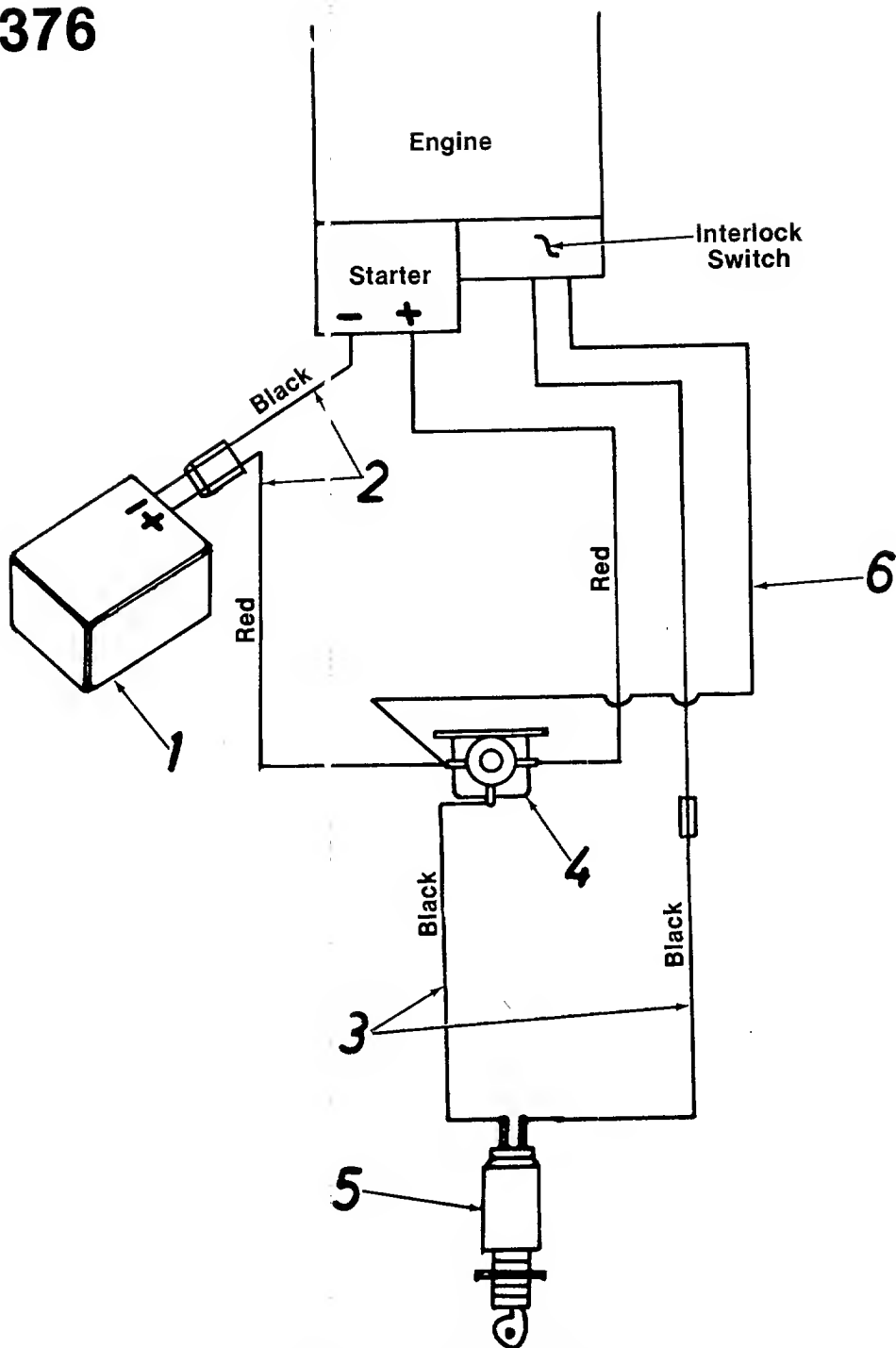
(462—Red Flake)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—14005 (462).)

**Hub Caps (Optional)	
Color	Part No.
Red	731-0124
Orange	731-0254
Black	731-0354
Gray	731-0355

Model 376



PARTS LIST FOR MODEL 376
ELECTRICAL DIAGRAM

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	†	Battery—6V	
2	†	Wiring Harness	
3	725-0172	Wiring Harness	
4	725-0174	Solenoid 6V	
5	725-0173	Key Switch w/Nut	
6	725-0105	Jumper Lead	

†Order from Briggs and Stratton Corp.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. 35233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	5301 Roundtop Drive
	Box 368, Rt. 4 72117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street 93257
COLORADO	DENVER
Spitzer Industrial Products Co.	6601 N. Washington St. 80229
FLORIDA	JACKSONVILLE
Radco Distributors	4909 Victor St. 32207
	Box 5459 32207
	OPA LOCKA
Small Eng. Dist.	2351 N.W. 147th St. 33054
GEORGIA	EAST POINT
East Point Cycle & Key	2834 Church St. 30344
ILLINOIS	LYONS
Keen Edge Co.	6815 Ogden Ave. 60534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. 46516
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy 52001
LOUISIANA	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire Ave. 20912
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania 48910
	MOUNT CLEMENS
Power Equipment Dist.	340 Hubbard 48043
MINNESOTA	HOPKINS
Hance Distributing Inc.	420 Excelsior Ave. W. 55343
MISSISSIPPI	BILOXI
Biloxi Sales & Service, Inc.	506 Caillavet St. 39533
MISSOURI	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. 64109
	ST. JOSEPH
Ross-Frazier Supply Co.	8th and Monterey 64503
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry Rd 63125
NEW JERSEY	BELLMAR
Lawnmower Parts Inc.	717 Creek Rd. 08030
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts	1023 Third Ave. N.W. 87103
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619
	SCHOHARIE
Red Fox Parts Dist.	Rt. 30 P.O. Box 527 12157

NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	515 N. George St. 27530
	GREENSBORO
Dixie Sales Company	335 N. Green 27402
OHIO	CARROLL
Stebe's Mid-State Mower Supply	Box 366, 71 High St. 43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave. 44102
	WADSWORTH
National Central	687 Seville Rd. 44281
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave. 44501
	Box 929 44501
OKLAHOMA	MUSKOGEE
Victory Motors, Inc.	605 S. Cherokee 74401
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. 97217
PENNSYLVANIA	HARRISBURG
EECO Inc.	4021 N. 6th St. 17110
	PHILADELPHIA
Thompson Rubber Co.	5222-24 N. Fifth St. 19120
	PITTSBURGH
Bluemont Co.	11125 Frankstown Rd. 15235
	PUNXSUTAWNEY
Frank Roberts & Sons	R.D. 2 15767
	SCRANTON
Scranton Auto Ignition Co.	1133-35 Wyoming Ave. 18509
TENNESSEE	KNOXVILLE
Master Repair Service	2000 Western Ave. 37921
	MEMPHIS
American Sales & Service, Inc.	3035-43 Bellbrook 38116
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson 75203
	FORT WORTH
Woodson Sales Corp.	1702 N. Sylvania 76111
	HOUSTON
Bullard Supply Co.	2409 Commerce St. 77003
	SAN ANTONIO
Engine House Inc.	8610 Botts Lane 78217
	P.O. Box 17867 78217
UTAH	SALT LAKE CITY
A-1 Engine & Mower Co.	439 E. 900 So. 84111
VIRGINIA	ASHLAND
RBI Corp.	101 Cedar Ridge Dr. 23005
WASHINGTON	SEATTLE
Bailey's Inc.	1414 14th Ave. 98122
WISCONSIN	APPLETON
Automotive Supply Co.	123 S. Linwood Ave. 54911
	P.O. Box 798 54911
	CHILTON
Horst Dist.	444 N. Madison 53014

WARRANTY PARTS AND SERVICE POLICY

(0783)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.